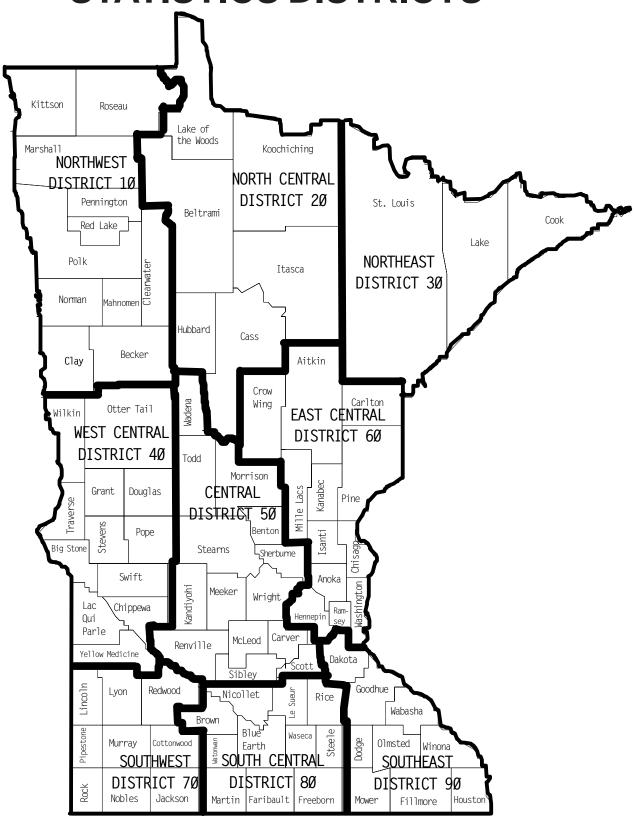
# MINNESOTA'S AGRICULTURAL STATISTICS DISTRICTS



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# Minnesota Agricultural Statistics 2002

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### **Foreword**

Minnesota farmers are among the world's best producers of corn, soybeans, and other commodities. However, our 5 million people consume much less than our farmers grow.

As a result, a lot of our farm production must be sold to consumers in other states and countries. Each year, we export a third of our corn crop, half of our soybean crop, and a third of our wheat crop. Agricultural exports play a major role in determining the price each farmer gets for his or her crops.

Developing new markets requires that we have timely and accurate information about the supplies of agricultural commodities. This is where we rely on farmers and agribusinesses to provide the facts. Markets run on information, and where there is a lack of accurate data, they substitute speculation.

I want to say "thank you" to all the farmers and agribusinesses who made this 2002 Minnesota Agricultural Statistics book possible by their voluntary cooperation on surveys conducted by the Minnesota Agricultural Statistics Service.

Gene Hugoson, Commissioner Minnesota Department of Agriculture



We are pleased to feature Minnesota's turkey industry on the cover of this year's book. In 2000, Minnesota took over first place among states in turkey production and held that position in 2001 with 44 million turkeys raised.

The 2002 Census of Agriculture is soon approaching. Census forms will be mailed by the U.S. Department of Agriculture in early December 2002 to all farmers and ranchers in the U.S. and are due back by February 3, 2003. Participation by all producers in the Census of Agriculture will ensure all operations, large and small, are properly counted and represented.

We hope this book is helpful to you. If you need more information, e-mail us at nass-mn@nass.usda.gov or call us at 1-800-453-7502. Also, visit our web site at www.nass.usda.gov/mn/.

Michael Hunst, State Agricultural Statistician Minnesota Agricultural Statistics Service

STATE RANKINGS: Minnesota's Rank Among States 1/										
Item	1	2	3	4	5	6	7	8	9	10
Cash Receipts, 2000:				-	*		•			
Total	CA	TX	IA	NE	KS	MN	NC	IL	FL	WI
Livestock & Livestock Products	TX	CA	NE	IA	KS	NC	MN	WI	OK	CO
Crops	CA	FL	IL	IA	TX	MN	WA	NC	NE	IN
Crop Production, 2001:										
Corn	IA	IL	NE	IN	MN	ОН	KS	SD	MO	WI
Soybeans	IA	IL	IN	MN	NE	ОН	MO	SD	AR	KS
All Wheat	KS	ND	WA	OK	TX	MT	ID	MN	SD	CO
Spring Wheat	ND	MN	MT	SD	ID	WA	OR	CO	UT	WI
Oats	ND	MN	WI	IA	SD	PA	TX	ОН	NY	NE
Barley	ND	ID	MT	WA	CO	MN	WY	CA	OR	UT
All Sunflowers	ND	SD	KS	CO	TX	NE	MN			
Dry Edible Beans	ND	NE	CO	CA	MN	ID	MI	WA	WY	TX
All Hay	TX	SD	CA	KS	MO	NE	MN	IA	KY	ND
All Potatoes	ID	WA	WI	ND	CO	OR	MN	ME	MI	CA
Sugarbeets	MN	ID	ND	MI	CA	MT	WY	NE	CO	OR
Flaxseed	ND	SD	MT	MN						
Canola	ND	MN								
Sweet Corn for Processing	WA	MN	WI	OR	NY	IL	PA			
Green Peas for Processing	MN	WA	WI	NY	OR					
Cultivated Wild Rice 2/	CA	MN								
Livestock, Dairy, Poultry:										
Red Meat Production, 2001	NE	IA	KS	TX	IL	CO	MN	NC	IN	WI
Cattle/Calves, January 1, 2002 3/	TX	KS	NE	CA	OK	MO	SD	IA	WI	CO
Milk Cows, January 1, 2002	CA	WI	NY	PA	MN	ID	TX	MI	NM	ОН
Cattle/Calves Marketed, 2001 4/	TX	NE	KS	CO	OK	CA	SD	IA	MO	MT
Cattle/Calves on Feed, Jan 1, 2002 5/	TX	KS	NE	CO	IA	CA	OK	SD	ID	ΑZ
Hogs, December 1, 2001	IA	NC	MN	IL	IN	MO	NE	OK	KS	ОН
Pig Crop, 2001	NC	IA	MN	IL	MO	OK	NE	IN	CO	KS
Hogs Marketed, 2001	IA	NC	MN	IL	IN	NE	MO	OK	ОН	KS
All Sheep & Lambs, Jan 1, 2002 6/	TX	CA	WY	SD	CO	UT	MT	OR	ID	IA
Lamb Crop, 2001 5/	TX	WY	MT	SD	UT	CA	ID	IA	CO	OR
All Chickens, December 1, 2001 5/	IA	ОН	GA	PA	IN	CA	TX	AR	NC	AL
Eggs Produced, Dec 2000-Nov 2001	IA	ОН	PA	IN	CA	GA	TX	AR	MN	NE
Turkeys Raised, 2001	MN	NC	AR	VA	MO	CA	IN	PA	SC	IA
Milk Production, 2001	CA	WI	NY	PA	MN	ID	NM	MI	WA	TX
Dairy Products Manufactured, 2001:										
Total Cheese	WI	CA	NY	MN	ID	PA	IA	SD	WA	ОН
American Cheese	WI	CA	MN	ID	WA	IA	NY	SD	OR	ОН
Ice Cream	CA	IN	TX	PA	MN	NY	ОН	FL	MI	MO
Mink Pelts Produced, 2000	WI	UT	MN	OR	ID	IA	WA	SD	PA	ОН
Honey Produced, 2001	CA	ND	FL	SD	MT	MN	TX	AR	WI	LA
Agricultural Exports, Fiscal Year 2000:	CA	IA	TX	NE	KS	IL	MN	WA	IN	AR

<sup>1/</sup> Rankings based on published data. 2/ Source: Minnesota Cultivated Wild Rice Council. 3/ Minnesota ranks 11th, CA and OK tied for 4<sup>th</sup> place.

<sup>4/</sup> Minnesota ranks 15th.

<sup>5/</sup> Minnesota ranks 11th.

<sup>6/</sup> Minnesota ranks 12th.

**COUNTY RANKINGS: Minnesota's Leading Agricultural Counties** 5 Item 2 3 6 8 9 10 2000 Cash 1/ Farm Receipts: Total Renville Polk Blue Farth Redwood Otter Tail Nicollet Stearns Martin Kandiyohi Brown Polk Wilkin Faribault Crops Renville Clay Marshall Redwood Martin Norman Chippewa Livestock Stearns Martin Kandiyohi Morrison Martin Renville Otter Tail Blue Earth Brown Goodhue Government Yellow Polk Marshall Renville Redwood Martin Stearns Faribault Mower Medicine Freeborn Payments 2001 Crop Production: Corn for Grain Renville Redwood Martin Yellow Med Lyon Faribault Blue Earth Freeborn Mower Jackson Soybeans Renville Yellow Med. Blue Earth LacQuiParle Redwood Nobles Lyon Murray Martin Mower All Wheat Polk Norman Clay Marshall Wilkin Kittson Otter Tail Roseau Becker Grant Oats Stearns Otter Tail Wabasha Fillmore Todd Goodhue Winona Olmsted Morrison Houston Barley Marshall Roseau Polk Norman Pennington Stearns Wilkin Otter Tail Clay Kittson Sunflowers Norman Polk Marshall Clay Wilkin Roseau Otter Tail Kittson Red Lake Pennington Sugarbeets Clay Norman Renville Wilkin Chippewa Marshall Kandiyohi Kittson Becker Canola Roseau Marshall Kittson Pennington Lake of the Red Lake Clay Woods Flaxseed Roseau Dry Edible Beans Polk Otter Tail Hubbard Renville Marshall Morrison Kandivohi Swift Wadena Stearns All Hay Stearns Otter Tail Winona Fillmore Morrison Wabasha Goodhue Houston Todd Polk Potatoes 2/ Sherburne Morrison Polk Todd Clay Freeborn Marshall Green Peas 3/ Renville Olmsted Mower Sibley Steele Dakota Goodhue Wabasha Redwood Brown Sweet Corn Renville Sibley Olmsted Freeborn Redwood Goodhue Faribault Brown Mower Waseca Livestock, Dairy & Poultry: Cattle & Calves, Otter Tail Winona Goodhue Fillmore Wabasha Jan 1, 2002 Stearns Morrison Dodd Houston Olmsted Beef Cows, Jan 1, 2002 Fillmore Otter Tail Morrison Clearwater Beltrami Olmsted Roseau Cass Todd Houston Milk Cows, Jan 1, 2002 Winona Fillmore Stearns Otter Tail Goodhue Todd Wabasha Carver Benton Morrison Milk Prod., 2001 Fillmore Stearns Winona Otter Tail Morrison Goodhue Wabasha Dodd Wriaht Carver Breeding Sheep & Lambs, Jan 1, 2002 4/ Pipestone Otter Tail Fillmore Renville Murray Lincoln Goodhue Todd Jackson Cottonwood Hogs, Dec 1, 2001 Martin Nicollet Renville Redwood Blue Earth Brown Nobles Rice Freeborn Jackson Pig Crop, 2001 Martin Blue Earth Nicollet Renville Brown Pipestone Faribault Jackson Freeborn Rice Cattle & Calves on Feed, Cottonwood Jan 1, 2002 Lyon Nobles Rock Stearns Redwood Murray Stevens Renville Dakota

<sup>1/</sup> Numbers for 2001 not available at time of publication.

<sup>2/</sup> Includes published counties only.

<sup>3/</sup> Goodhue and Wabasha tied for 8<sup>th</sup>

<sup>4/</sup> Cottonwood and Fillmore tied for 8th

### **FARM NUMBERS**

The 2001 total number of farms in Minnesota was estimated at 79,000, unchanged from 2000. The Minnesota number of farms in the \$1,000 -\$9,999 economic sales class increased 500 to 30,500 in 2001. Those with sales in the \$10,000-\$99,999 economic sales class decreased 500 to 28,500 farms in 2001.

Minnesota commerical farms in the \$100,000 and over sales class remained unchanged from 2000 at 20,000 in 2001.

A farm is defined as any establishment from which \$1,000 or more of agricultural products were sold or would normally be sold during the year. Government payments are included as sales. The farm definition includes places with five or more horses as a farm, except horses in boarding stables and race tracks.

### NUMBER OF FARMS, LAND IN FARMS, AND AVERAGE SIZE: Minnesota, 1990-2001 1/2/

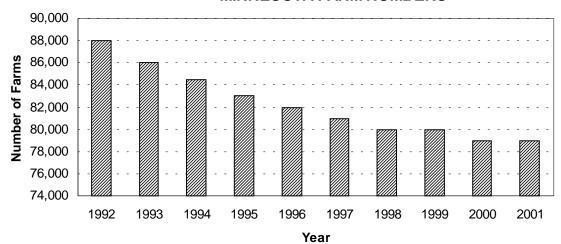
Year	Number of Farms	Land in Farms	Avg. Size of Farms
i cai	1 411113	Lana III I anno	Or i drillo
	<u>Number</u>	1,000 Acres	<u>Acres</u>
1990	89,000	30,000	337
1991	88,000	30,000	341
1992	88,000	29,800	339
1993	86,000	29,700	345
1994	84,500	29,500	349
1995	83,000	29,400	354
1996	82,000	29,200	356
1997	81,000	29,100	359
1998	80,000	28,900	361
1999	80,000	28,800	360
2000	79,000	28,600	362
2001	79,000	28,500	361

<sup>1/</sup> A farm is any establishment from which \$1,000 or more of agricultural products were sold or would normally be sold during the year.

### NUMBER OF FARMS AND LAND IN FARMS: by Sales Class, Minnesota, 1996-2001

	Sy Caico Glaco, Illininocota, 1000 2001											
			Sales	Class								
Year	\$1,000- \$9,999	\$10,000- \$99,999	\$100,000 & over	\$1,000- \$9,999	\$10,000- \$99,999	\$100,000 & over						
		Number of Farms	<u> </u>	<u>Land</u>	in Farms (1,000	Acres)						
1996	29,000	31,500	21,500	3,100	9,000	17,100						
1997	29,500	30,500	21,000	3,100	8,700	17,300						
1998	29,500	29,500	21,000	3,100	8,500	17,300						
1999	30,500	29,500	20,000	3,100	8,600	17,100						
2000	30,000	29,000	20,000	3,000	8,500	17,100						
2001	30,500	28,500	20,000	3,000	8,400	17,100						

#### MINNESOTA FARM NUMBERS



<sup>2/</sup> For the years of 1992 and earlier, farm numbers and land in farms are for a June 1 reference date. Starting with 1993, numbers are for the entire year.

### **EXPORTS**

Minnesota ranked 7th in farm exports for fiscal year 2000. The value of the state's exports came to \$2.23 billion versus \$2.18 billion in 1999.

The table below shows the value of farm exports by commodity group. These figures are not actual exports but are derived from Minnesota's contribution to U.S. production and/or sales. They reflect Minnesota's important stake in the national export market.

### AGRICULTURAL EXPORTS: Minnesota, FY 2000

## AGRICULTURAL EXPORTS: State Rankings, FY 2000

Commodity	Value	Rank	State	Value
	Million Dollars			Million Dollars
Feed Grains & Products	628.2	<b>-</b> : .		7.005.4
Soybeans & Products	727.6	First	CA	7,635.4
Wheat & Products	84.3	Second	IA	3,419.1
Live Animals & Meat				•
(Excludes Poultry)	229.6	Third	TX	3,258.4
Vegetables & Preparations	168.9	Fourth	NE	3,136.0
Feeds & Fodders	101.5	1 Outil	145	3,130.0
Dairy Products	81.9	Fifth	KS	3,060.5
Hides & Skins	39.2	Chath		0.070.0
Poultry & Products	59.1	Sixth	IL	2,976.9
Sunflower Seed & Oil	9.2	Seventh	MN	2,234.3
Fats, Oils, Greases	12.4			
Seeds	31.9	Eighth	WA	1,645.3
Other 1/	60.4	Ninth	IN	1,479.5
TOTAL	2,234.3	Tenth	AR	1,412.3

<sup>1/</sup> Includes confectionary, nursery and greenhouse, essential oils, beverages (excluding juice), and other miscellaneous animal and vegetable products.

Note: Totals may not add due to rounding.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

LAND VALUES: Average Per Acre Value of Farmland and Buildings, Minnesota and Selected States, January 1, 1998-2001 1/2/

State	1998	1999	2000	2001	Change 2000-2001
		<u>Dolla</u>	s Per Acre		<u>Percent</u>
MN	1,160	1,230	1,280	1,320	3.1
IA	1,700	1,770	1,820	1,860	2.2
ND	401	406	415	425	2.4
SD	348	360	380	405	6.6
WI	1,240	1,370	1,700	2,000	17.6
48 States	974	1,020	1,080	1,130	4.6

<sup>1/</sup> Value of farmland and buildings in normal dollars (not adjusted for inflation).

<sup>2/</sup> Publication date is scheduled for August 2, 2002. Report will be available on the USDA, NASS website (see page 119).

### LAND VALUES

Average Minnesota farmland prices continue to move upward. Each year, the Minnesota Department of Revenue compiles every farmland sale in the state into a single data set that includes sale price, parcel size, number of tillable acres, terms of sale, and other pertinent items.

Statewide sales in 2001 totaled 1,579, a decrease of 29.7 percent from the 2000 sales. The average acreage per sale in 2001 was 117 acres, compared with 112 acres in 2000. Average unadjusted sale price per acre was \$1,505 in 2001, an increase of \$159 per acre from the 2000 average.

FARMLAND SALES: Number, Acres, and Price, Minnesota, 1997-2001

			Price Pe	er Acre
Sales Year	Number of Sales	Acres Sold	Unadjusted Average	Median
	<u>Number</u>	Acres		ars
1997	2,738	310,491	1,120	1,039
1998	2,491	271,848	1,214	1,096
1999	2,220	242,468	1,232	1,146
2000	2,245	252,460	1,346	1,229
2001	1,579	184,323	1,505	1,369

FARMLAND SALES: Number, Acres, and Price, by District, Minnesota, 2001

			Price P	er Acre
Reporting District	Number of Sales	Acres Sold	Unadjusted Average	Median
	<u>Number</u>	<u>Acres</u>	<u>Doll</u>	<u>ars</u>
Northwest	226	45,229	604	533
North Central	67	9,870	709	614
Northeast	8	386	1,483	1,205
West Central	244	31,161	1,116	1,021
Central	364	30,400	1,906	1,652
East Central	142	10,145	2,451	2,152
Southwest	175	20,017	1,526	1,508
South Central	196	20,428	2,083	2,052
Southeast	157	16,687	2,287	1,985
Minnesota	1,579	184,323	1,505	1,369

Source: "Minnesota Agricultural Economist".

Steven J. Taff, Department of Applied Economics, University of Minnesota.

Internet Web Site (www.apec.umn.edu/faculty/sjtaff/).

## CORN AND SOYBEANS: Production Cash Costs and Returns, Heartland Region, 1999-2000 1/

	,	orn	South	20000
Item			· ·	peans
Telli .	1999	2000	1999	2000
Cross value of are dustion.	<u>Dollars per</u>	Planted Acre	<u>Dollars per</u>	Planted Acre
Gross value of production:				
(excluding direct Government payments)	236.64	259.36	186.06	100.00
Total, gross value of production	230.04	259.36	186.06	199.80
Operating costs:				
Seed	30.71	30.64	18.41	18.30
Fertilizer, lime, and gypsum	41.56	41.60	7.25	7.23
Soil conditioners	0.10	0.10	0.08	0.14
Manure	0.37	0.36	0.88	0.94
Chemicals	29.95	30.51	25.56	22.58
Custom operations 2/	10.73	10.96	5.90	5.83
Fuel, lube, and electricity	21.08	26.41	5.32	7.78
Repairs	15.62	15.98	9.11	9.50
Other variable cash expenses 3/	0.00	0.00	0.00	0.00
Interest on operating capital	3.50	4.51	1.71	2.08
Total, operating costs	153.62	161.07	74.22	74.38
Allocated overhead:				
Hired labor	2.34	2.35	1.32	1.35
Opportunity cost of unpaid labor	30.92	31.80	17.97	18.93
Capital recovery of machinery and equipment	65.70	67.32	49.01	50.96
Opportunity cost of land (rental rate)	97.32	100.73	88.38	90.65
Taxes and insurance	6.30	6.47	6.82	7.04
General farm overhead	10.86	11.11	14.55	14.94
Total, allocated overhead	213.44	219.78	178.05	183.87
Total costs listed	367.06	380.85	252.27	258.25
Value of production less total costs listed	-130.42	-121.50	-66.21	-58.45
Value of production less operating costs	83.02	98.29	111.84	125.42
Supporting information:				
Yield (bu./planted acre)	141	148	42	45
Price (dollars per bushel at harvest)	1.67	1.75	4.43	4.44
Enterprise size (planted acres) 4/	223	223	225	225
Production practices: 4/				
Irrigated (percent)	6	6	2	2
Dryland (percent)	94	94	98	98

<sup>1/</sup> The Heartland Region includes portions of South Dakota, Nebraska, Iowa, Missouri, Illinois, Indiana, Ohio, and Minnesota's Ag. Statistics Districts 4, 7, 8, and 9. Minnesota is also part of the Northern Crescent and Northern Great Plains Regions. Information is available about the Northern Crescent and Northern Great Plains Regions on the ERS websites listed below.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C. Internet Web Site (www.ers.usda.gov/Data/CostsAndReturns/testpick.htm)

<sup>2/</sup> Cost of custom operations, technical services, and commercial drying.

<sup>3/</sup> Cost of purchased irrigation water.

<sup>4/</sup> Developed from survey base year 1996, for corn. Developed from base year, 1997, for soybeans.

WHEAT: Production Cash Costs and Returns, Northern Plains Region, 1993-2000 1/2/

Item	1993	1994	1995	1996	1997	1998	1999	2000
Kom	1330	1004					1000	2000
Gross value of production:			Ī	Joliars per	Planted Ac	<u>e</u>		
(excluding direct Government payments)								
Wheat	102.82	92.18	120.59	143.56	93.61	100.10	85.49	83.98
Wheat straw	0.64	0.60	0.51	0.60	0.74	1.74	1.42	1.67
Total, gross value of production	103.46	92.78	121.10	144.16	94.35	101.84	86.91	85.65
Cash expenses:								
Seed	6.45	7.83	7.44	8.93	7.64	7.64	6.36	6.19
Fertilizer, lime, and gypsum	9.38	12.25	15.34	15.63	14.85	14.78	13.46	13.91
Chemicals	8.08	7.61	7.98	8.27	8.33	10.61	10.28	10.15
Custom operations	2.68	2.54	2.59	2.72	2.64	4.04	3.82	4.00
Fuel, lube, and electricity	7.81	5.82	5.99	7.12	6.74	4.25	4.16	6.06
Repairs	7.41	12.07	12.51	14.09	12.77	8.10	8.85	9.85
Hired labor	3.85	2.16	2.30	2.39	2.52	1.45	1.48	1.60
Other variable cash expenses 3/	0.01	0.03	0.03	0.03	0.03	0.16	0.16	0.16
Total, variable cash expenses	45.67	50.31	54.18	59.18	55.52	51.03	48.57	51.92
General farm overhead	6.01	4.18	5.45	4.54	5.35	6.32	6.42	6.49
Taxes and insurance	10.22	7.83	8.83	8.67	9.61	3.76	3.81	3.85
Interest	8.98	7.61	10.68	9.39	9.47	1.19	1.11	1.45
Total, fixed cash expenses	25.21	19.62	24.96	22.60	24.43	11.27	11.34	11.79
Total, cash expenses	70.88	69.93	79.14	81.78	79.95	62.04	59.91	63.71
Gross value of production less cash expenses	32.58	22.85	41.96	62.38	14.40	39.80	27.00	21.94
Harvest-period price (dollars/bu.)	3.39	3.31	4.31	4.86	3.81	2.91	2.68	2.50
Yield (bu./planted acre)	30.33	27.85	27.98	29.54	24.57	34.40	31.90	33.60

<sup>1/</sup> Data for 1993-1997 refer to the Northern Plains Region which includes Minnesota, North Dakota, South Dakota, Montana, and Wyoming.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C. Internet Web Site (www.ers.usda.gov/Data/CostsAndReturns/testpick.htm)

BARLEY: Production Cash Costs and Returns, Northern Plains Region, 1993-2000 1/

Item	1993	1994	1995	1996	1997	1998	1999	2000	
		<u>Dollars per Planted Acre</u>							
Gross value of production:									
(excluding direct Government payments)									
Barley	77.38	89.47	109.22	139.00	91.83	79.90	73.27	68.82	
Barley straw	2.18	1.94	1.87	1.89	2.67	2.07	1.79	2.02	
Total, gross value of production	79.56	91.41	111.09	140.89	94.50	81.97	75.06	70.84	
Cash expenses:									
Seed	5.16	5.22	5.72	7.63	6.77	6.30	5.73	5.84	
Fertilizer, lime, and gypsum	12.27	13.47	16.77	17.11	16.68	14.49	13.52	13.80	
Chemicals	6.75	7.29	7.69	7.86	7.97	8.11	8.14	7.77	
Custom operations	2.81	3.09	3.46	3.41	3.39	3.49	3.68	3.64	
Fuel, lube, and electricity	7.75	7.22	7.42	8.85	8.59	7.55	7.72	10.28	
Repairs	11.50	12.69	13.04	15.21	13.87	14.08	14.25	14.91	
Hired labor	3.67	3.55	3.80	3.98	4.40	4.50	4.65	4.88	
Other variable cash expenses 2/	0.77	0.81	0.86	0.98	1.04	1.06	1.32	1.14	
Total, variable cash expenses	50.68	53.34	58.76	65.03	62.71	59.58	59.01	62.26	
General farm overhead	5.04	6.11	7.27	7.28	7.58	6.07	5.77	5.82	
Taxes and insurance	9.37	10.90	11.87	12.86	12.13	11.14	10.39	10.70	
Interest	8.66	9.96	13.01	13.70	12.20	11.33	11.40	11.40	
Total, fixed cash expenses	23.07	26.97	32.15	33.84	31.91	28.54	27.56	27.92	
Total, cash expenses	73.75	80.31	90.91	98.87	94.62	88.12	86.57	90.18	
Gross value of production less cash expenses	5.81	11.10	20.18	42.02	-0.12	-6.15	-11.51	-19.34	
Harvest-period price (dollars/bu.)	1.79	1.93	2.47	2.82	2.11	1.69	1.73	1.59	
Yield (bu./planted acre)	43.23	46.36	44.22	49.29	43.52	47.28	42.35	43.28	

<sup>1/</sup> The Northern Plains Region which includes Minnesota, North Dakota, South Dakota, Montana, and Wyoming.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C. Internet Web Site (www.ers.usda.gov/Data/CostsAndReturns/testpick.htm)

<sup>2/</sup> Data for 1998 and later refer to the Northern Great Plains Region which includes North Dakota, South Dakota, and parts of Montana, Wyoming, Nebraska and Minnesota.

<sup>3/</sup> Cost of purchased irrigation water and baling.

<sup>2/</sup> Cost of purchased irrigation water and baling.

OATS: Production Cash Costs and Returns, North Central Region, 1993-2000 1/

				7				
Item	1993	1994	1995	1996	1997	1998	1999	2000
			j	Dollars per l	Planted Ac	<u>re</u>		
Gross value of production:	1		•	-		<del></del>		
(excluding direct Government payments)	1							
Oats	66.72	68.92	71.40	119.06	104.46	64.03	68.26	69.90
Oats straw	28.30	44.21	37.98	44.21	49.88	44.21	45.34	46.48
Total, gross value of production	95.02	113.13	109.38	163.27	154.34	108.24	113.60	116.38
Cash expenses:								
Seed	9.48	9.29	8.91	9.67	10.10	9.72	9.02	8.30
Fertilizer, lime, and gypsum	12.46	16.71	20.61	20.12	20.09	19.10	17.90	18.24
Chemicals	0.86	1.15	1.19	1.26	1.27	1.27	1.26	1.25
Custom operations 2/	5.96	6.08	5.69	5.75	5.71	5.73	5.75	5.76
Fuel, lube, and electricity	6.69	6.64	4.08	4.19	4.33	3.54	3.72	5.52
Repairs	6.01	9.61	8.03	6.50	7.63	7.10	6.70	6.57
Hired labor	6.07	1.64	1.58	1.73	1.81	1.91	2.00	2.18
Other variable cash expenses 3/	0.00	1.63	1.40	1.63	1.84	1.63	1.67	1.71
Total, variable cash expenses	47.53	52.75	51.49	50.85	52.78	50.00	48.02	49.53
General farm overhead	4.74	4.58	4.83	4.52	5.31	5.01	5.08	5.21
Taxes and insurance	22.67	17.33	19.00	20.15	20.15	19.58	20.15	21.16
Interest	4.18	5.44	6.22	6.14	6.17	6.50	6.13	6.48
Total, fixed cash expenses	31.59	27.35	30.05	30.81	31.63	31.09	31.36	32.85
Total, cash expenses	79.12	80.10	81.54	81.66	84.41	81.09	79.38	82.38
Gross value of production less cash expenses	15.90	33.03	27.84	81.61	69.93	27.15	34.22	34.00
Harvest-period price (dollars/bu.)	1.41	1.23	1.28	2.02	1.62	1.09	1.10	1.02
Yield (bu./planted acre)	47.32	56.03	55.78	58.94	64.48	58.74	62.05	68.53

<sup>1/</sup> The North Central Region includes Minnesota, Iowa, Wisconsin, Illinois, Michigan, and Ohio.

Note: Survey base changed in 1994.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site (www.ers.usda.gov/data/costsandreturns/testpick.htm)

SUGARBEETS: Production Cash Costs and Returns, Red River Valley, 1993-2000 1/

Item	1993	1994	1995	1996	1997	1998	1999	2000
				Dollars per	Planted Acr	e		
Gross value of production:			-			<u> </u>		
Beets - gross value of production	591.61	852.36	685.85	851.03	697.50	733.42	739.11	712.36
Cash expenses:								
Seed	37.53	39.89	41.15	42.91	44.81	46.39	45.55	44.18
Fertilizer	28.68	32.78	39.90	41.68	39.86	35.68	33.83	32.72
Chemicals	66.30	66.79	68.13	71.12	71.13	71.43	70.62	68.06
Custom operations	19.88	24.78	24.12	23.93	23.30	25.78	24.79	25.32
Fuel and lubrication	18.20	18.46	17.85	21.87	20.73	18.43	19.18	26.42
Repairs	24.48	29.87	28.93	29.37	31.53	33.53	34.38	34.22
Hired labor	68.50	66.12	69.33	77.02	83.06	86.06	84.88	90.51
Purchased irrigation water	0.04	0.04	0.04	0.04	0.05	0.05	0.04	0.05
Freight and dirt hauling charges	8.92	9.93	9.55	11.93	11.81	11.25	10.85	14.15
Miscellaneous 2/	14.00	13.85	14.47	16.54	16.94	15.71	15.77	17.78
Hauling allowance (-)	-8.33	-9.50	-9.14	-11.39	-11.36	-10.75	-10.36	-13.21
Total, variable cash expenses	278.20	293.01	304.33	325.02	331.86	333.56	329.53	340.20
General farm overhead	30.64	30.16	30.43	20.75	30.90	28.98	29.48	30.20
Taxes and insurance	39.40	35.88	39.36	33.23	39.24	40.39	40.76	41.81
Interest	45.18	41.90	45.83	32.88	41.99	48.63	49.59	52.38
Total, fixed cash expenses	115.22	107.94	115.62	86.86	112.13	118.00	119.83	124.39
Total, cash expenses	393.42	400.95	419.95	411.88	443.99	451.56	449.36	464.59
Gross value of production less cash expenses	198.19	451.41	265.90	439.15	253.51	281.86	289.75	247.77
Season-average price (dollars/ton)	40.97	41.66	38.38	46.76	38.43	35.21	37.16	37.16
Yield (net tons/planted acre)	14.44	20.46	17.87	18.20	18.15	20.83	19.89	19.17

<sup>1/</sup> The Red River Valley includes Minnesota and eastern North Dakota.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C. Internet Web Site (www.ers.usda.gov/data/costsandreturns/testpick.htm)

<sup>2/</sup> Cost of custom operations and technical services.

<sup>3/</sup> Cost of baling.

<sup>2/</sup> Includes costs deducted by the processor from the net payment and noncash benefits.

HOG PRODUCTION: Farrow-to-Finish, Farrow-to-Feeder, Feeder Pig-to-Finish, Cash Costs and Returns, Heartland Region, 2000 1/

	1							
Item	All Hog Producers	Farrow to Finish	Farrow to Feeder 2/	Feeder Pig to Finish				
	Dollars per Cwt Gain 3/							
Gross value of production:								
Market hogs	41.58	40.34	1.97	50.56				
Feeder pigs	11.39	0.85	122.29	0.23				
Cull stock	1.28	2.18	3.26	0.02				
Breeding stock	0.51	0.20	0.32	0.02				
Inventory change	-0.13	0.10	-5.71	0.86				
Other income 4/	1.46	1.41	1.21	1.59				
Total gross value of production	56.09	45.08	123.34	53.28				
Operating costs:								
Feed:								
Grain	6.42	8.11	1.83	5.05				
Protein sources	6.21	8.60	0.95	3.84				
Complete mixes	7.45	4.41	24.09	8.96				
Other feed items 5/	0.21	0.35	0.22	0.08				
Total feed costs	20.29	21.47	27.09	17.93				
Other:	14.40	0.08	0.74	32.35				
Feeder pigs	14.40		0.71					
Veterinary and medicine	1.21	1.63	2.74	0.53				
Bedding and litter	0.04	0.05	0.05	0.02				
Marketing	0.62	0.34	3.69	0.53				
Custom services	0.31	0.27	0.28	0.37				
Fuel, lube, and electricity	1.54	1.64	3.96	0.98				
Repairs	0.86	1.17	1.09	0.42				
Other operating costs 6/	0.03	0.03	0.04	0.03				
Interest on operating capital	1.13	0.77	1.14	1.53				
Total operating costs	40.43	27.45	40.79	54.69				
Allocated overhead:								
Hired labor	2.27	2.59	11.30	0.42				
Opportunity cost of unpaid labor	5.94	7.73	7.80	3.43				
Capital recovery of machinery and equipment	10.73	11.63	26.32	6.75				
Opportunity cost of land (rental rate)	0.05	0.06	0.07	0.02				
Taxes and insurance	0.50	0.53	0.95	0.39				
General farm overhead	1.00	1.10	1.54	0.79				
Total allocated overhead	20.49	23.64	47.98	11.80				
Total costs listed	60.92	51.09	88.77	66.49				
/alue of production less total costs listed	-4.83	-6.01	34.57	-13.21				
Value of production less operating costs	15.66	17.63	82.55	-1.41				
Supporting information:								
Production arrangement (percent of production) 7/								
Independent	71	99	23	48				
Under contract	29	1	77	52				
Size of operation (head sold/removed)								
Market hogs	1,607	1,424	65	2,351				
Feeder pigs	875	47	8,535	13				

<sup>1/</sup> The Heartland Region includes portions of South Dakota, Nebraska, Iowa, Missouri, Illinois, Indiana, Ohio, and Minnesota's Ag. Statistics Districts 4, 7, 8, and 9. Minnesota is also part of the Northern Crescent and Northern Great Plains Regions. Information is available about the Northern Crescent and Northern Great Plains Regions on the ERS website.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C. Internet Web Site (www.ers.usda.gov/Data/CostsandReturns/Testpick.htm)

<sup>2/</sup> Farrow to Feeder data are for the United States (Heartland Region data are not available).

<sup>3/</sup> Cwt gain = (cwt sold - cwt purchased) ÷ cwt inventory change.

<sup>4/</sup> Value of manure production.

<sup>5/</sup> Milk replacer, milk, milk by-products, antibiotics, and other medicated additives.

<sup>6/</sup> Costs for odor control and fees, permits, licenses, and other regulatory costs.

<sup>7/</sup> Developed from survey base year, 1998.

COW-CALF: Production Cash Costs and Returns, Heartland Region, 1999-2000 1/

Item	1999	2000
	Dollars p	er Bred Cow
Gross value of production:		
Steer calves	160.38	191.23
Heifer calves	108.78	129.55
Yearling steers	33.79	37.75
Yearling heifers	10.30	11.43
Other cattle	62.60	66.87
Total, gross value of production	380.28	441.36
Operating costs:		
Feeder cattle	22.43	25.64
Feed:		
Concentrates and other feed	24.11	24.76
Supplemental feed	31.30	30.65
Harvested forages	186.79	190.00
Cropland pasture	13.28	13.10
Private pasture	65.81	68.54
Public land	0.35	0.37
Total feed costs	321.64	327.42
Other:		-
Veterinary and medicine	40.91	41.64
Bedding and litter	1.23	1.22
Marketing	4.43	4.53
Custom operations	42.57	43.42
Fuel, lube, and electricity	16.20	16.19
Repairs	30.79	31.43
Interest on operating inputs	12.46	15.31
Total, variable operating costs	492.66	506.80
Allocated overhead:		
Hired labor	0.52	0.54
Opportunity cost of unpaid labor	194.62	200.12
Capital recovery cost of machinery and equipment	239.25	254.91
	5.22	5.42
Opportunity cost of land Taxes and insurance	42.84	5.42 43.78
General farm overhead	78.99	80.63
Total, allocated overhead	561.45	585.40
Total cost listed	1,054.11	1,092.20
Value of production less total costs listed	-673.83	-650.84
Value of production less operating costs	-112.38	-65.44

<sup>1/</sup> The Heartland Region includes portions of South Dakota, Nebraska, Iowa, Missouri, Illinois, Indiana, Ohio, and Minnesota's Ag. Statistics Districts 4, 7, 8, and 9. Minnesota is also part of the Northern Crescent and Northern Great Plains Regions. Information is available about the Northern Crescent and Northern Great Plains Regions on the ERS website listed below.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C. Internet Web Site (http://www.ers.usda.gov/Data/CostsAndReturns/testpick.htm)

MILK: Production Cash Costs And Returns, Upper Midwest Region, 1992-2000 1/

MILIT. I TOUGCHOIL OUSII OOSIS	, , tild it	<u>otai iio</u>	, opper imawest ix			<u>og.o.,</u>			
Item	1992	1993	1994	1995	1996	1997	1998	1999	2000
		,							
Gross value of production:					ollars per C				
Milk	13.11	12.89	13.04	12.83	14.74	13.32	15.48	13.97	11.91
Cattle	1.56	1.24	1.15	1.00	0.89	0.97	0.94	1.03	1.07
Other income 2/	0.19	0.60	0.64	0.76	0.77	0.75	0.68	0.66	0.67
Total, gross value of production	14.86	14.73	14.83	14.59	16.40	15.04	17.10	15.66	13.65
Cash expenses:									
Feed:									
Concentrates	2.85	3.68	3.77	3.53	4.19	4.53	4.07	3.66	3.57
By-products	0.08	0.11	0.11	0.11	0.11	0.12	0.13	0.12	0.12
Liquid whey 3/		0.14	0.14	0.15	0.16	0.17	0.18	0.13	0.12
Hay	1.07	1.31	1.15	0.98	1.04	1.36	1.14	0.80	0.73
Silage	1.05	1.90	1.66	1.41	1.51	1.99	1.67	1.15	1.04
Pasture and other forage	0.04	0.11	0.10	0.13	0.16	0.12	0.14	0.15	0.16
Total feed costs	5.09	7.25	6.93	6.31	7.17	8.29	7.33	6.01	5.74
Other:									
Hauling and marketing	0.50	0.52	0.56	0.52	0.50	0.58	0.58	0.58	0.60
Artificial insemination	0.15	0.16	0.17	0.16	0.15	0.18	0.17	0.17	0.18
Veterinary and medicine	0.25	0.45	0.48	0.44	0.43	0.50	0.49	0.50	0.52
Fuel, lube, and electricity	0.23	0.59	0.57	0.57	0.62	0.61	0.56	0.56	0.69
Machinery and building repairs	0.56	0.96	1.02	1.04	1.01	1.09	1.13	1.14	1.19
Hired labor	0.49	0.65	0.65	0.58	0.56	0.53	0.50	0.49	0.45
DHIA fees	0.05	0.07	0.08	0.07	0.07	0.08	0.08	0.08	0.08
Dairy assessment	0.13	0.14	0.17	0.16	0.03	0.00	0.00	0.00	0.00
Other variable cash expenses 4/	0.24	0.63	0.68	0.66	0.65	0.74	0.73	0.73	0.76
Total, variable cash expenses	7.69	11.42	11.31	10.51	11.19	12.60	11.57	10.26	10.21
General farm overhead	0.57	0.59	0.64	0.67	0.65	0.73	0.75	0.73	0.72
						0.73		0.73	0.72
Taxes and insurance Interest	0.46 0.79	0.34 0.99	0.38 1.01	0.38 1.14	0.43 1.16	1.13	0.46 1.29	1.33	1.34
Total, fixed cash expenses	1.82	1.92	2.03	2.19	2.24	2.28	2.50	2.45	2.45
Total, cash expenses	9.51	13.34	13.34	12.70	13.43	14.88	14.07	12.71	12.66
•									
Gross value of production less cash expenses	5.35	1.39	1.49	1.89	2.97	0.16	3.03	2.95	0.99

<sup>1/</sup> The Upper Midwest Region includes Minnesota, Wisconsin, Michigan, and South Dakota.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C. Internet Web Site (www.ers.usda.gov/data/costsandreturns/testpick.htm)

<sup>2/</sup> Includes the dairy enterprise share of receipts from cooperative patronage dividends, assessment refunds, renting or leasing of dairy animals, manure sales, and insurance indemnity payments.

<sup>3/</sup> Not available prior to 1993.

<sup>4/</sup> Includes the dairy enterprise share of expenses for bedding and litter, and custom services and supplies.

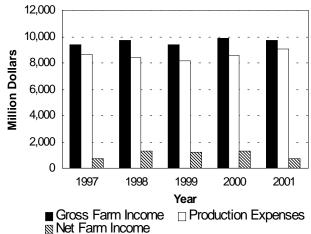
### **FARM INCOME**

Net farm income received by Minnesota farmers in 2000 was up 7% from 1999.

Total net farm income for 2000 was \$1.55 billion, compared to \$1.44 billion in 1999. Total farm production expenses in 2000 were \$8.42 billion, compared to \$8.02 billion in 1999.

The "average" Minnesota farm had gross farm income of \$126,208 in 2000. However, expenses totaled \$106,608, leaving the typical farm with \$19,600 of net farm income in 2000, compared with \$18,024 in 1999 and \$18,129 in 1998.

# MINNESOTA FARM INCOME AND PRODUCTION EXPENSES



### FARM INCOME AND EXPENSES: Minnesota, 1996-2001

Year	Cash Receipts From Farm Marketings	Government Payments	Noncash Income 1/	Farm Related Income 2/	Value of Inventory Adjustment 3/	Total Gross Farm Income	Total Farm Production Expenses	Total Net Farm Income
				Million	Dollars			
1996	8,808.1	349.3	410.8	358.0	178.1	10,104.3	7,914.1	2,190.2
1997	8,069.0	417.0	416.7	457.0	32.8	9,392.5	8,638.7	753.8
1998	7,868.2	794.5	416.2	430.0	207.2	9,716.1	8,416.5	1,299.6
1999	6,999.0	1,409.9	427.4	414.4	108.4	9,359.1	8,126.3	1,232.8
2000	7,463.1	1,502.2	432.1	443.9	38.3	9,879.6	8,577.1	1,302.5
2001 4/	8,101.9	1,242.1	444.2	656.5	(705.5)	9,739.2	9,043.7	695.5

<sup>1/</sup> Includes value of home consumption and housing.

Note: Figures may not add due to rounding.

### AVERAGE PER FARM INCOME: Minnesota, 1996-2001 1/

v				Net Farm
Year	Number of Farms	Gross Farm Income	Farm Production Expenses	Income
	<u>1,000</u>		<u>Dollars</u>	
1996	82.0	123,223	96,513	26,710
1997	81.0	115,957	106,651	9,306
1998	80.0	121,451	105,206	16,245
1999	80.0	116,989	101,579	15,410
2000	79.0	125,058	108,571	16,487
2001	79.0	123,281	114,477	8,804

<sup>1/</sup> Farms having annual sales of ag products of \$1,000 or more.

Note: Figures may not add due to rounding.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

<sup>2/</sup> Includes income from custom work, machine hire, forest products, and other farm income.

<sup>3/</sup> Estimated physical change in crops and livestock owned by farmers, valued at average prices prevailing during the year.

<sup>4/</sup> Preliminary data.

CASH RECEIPTS FROM FARM MARKETINGS: Minnesota, 1999-2001 1/

CASH REC		W FARW WA	T T				
	19	999	20	000	20	001	
Commodity	Dollars	Percent of Total	Dollars	Percent of Total	Dollars	Percent of Total	
	<u>1,000</u>	<u>Percent</u>	<u>1,000</u>	<u>Percent</u>	<u>1,000</u>	Percent	
CROPS: 2/							
Feed Crops							
Corn	1,165,041	16.6	1,199,614	16.1	1,446,608	17.9	
Oats	6,493	0.1	7,077	0.1	6,055	*	
Barley	17,313	0.2	11,723	0.2	11,176	0.1	
Hay	52,687	0.8	60,737	0.8	74,790	0.9	
Food Grains							
Wheat	208,302	3.0	247,910	3.3	260,592	3.2	
Rye	1,923	*	1,280	*	739	*	
Oil Crops							
Soybeans	1,176,954	16.8	1,298,269	17.4	1,294,095	16.0	
Sunflowers	13,285	0.2	12,791	0.2	9,263	0.1	
Vegetable Crops							
Potatoes	93,123	1.3	71,854	1.0	100,679	1.2	
Sweet Corn (processed)	55,483	0.8	50,897	0.7	54,714	0.7	
Green Peas (processed)	42,258	0.6	45,204	0.6	32,091	0.4	
Other Crops							
Sugarbeets	346,705	5.0	311,557	4.2	262,725	3.2	
Dry Beans	46,199	0.7	32,091	0.4	35,065	0.4	
Apples	7,574	0.1	7,557	0.1	7,392	*	
Floriculture	70,632	1.0	77,602	1.0	79,625	1.0	
Other Crops, Fruits, & Vegetables 3/	145,329	2.1	143,809	1.9	137,831	1.7	
•							
Total Crops	3,449,301	49.3	3,579,972	48.0	3,813,440	47.1	
LIVESTOCK AND PRODUCTS:							
Meat Animals							
Cattle & Calves	749,479	10.7	896,602	12.0	890,842	11.0	
Hogs	823,895	11.8	1,207,465	16.2	1,416,925	17.5	
Sheep & Lambs	13,571	0.2	13,618	0.2	11,503	0.1	
Dairy Products	1,312,220	18.7	1,126,560	15.1	1,297,343	16.0	
Poultry & Eggs							
Turkeys	373,013	5.3	360,876	4.8	385,000	4.8	
Broilers	77,976	1.1	72,930	1.0	85,605	1.1	
Chicken Eggs	114,537	1.6	116,666	1.6	112,810	1.4	
Other Livestock Products							
Honey	7,253	0.1	7,695	0.1	6,889	0.1	
Miscellaneous Livestock							
& Products 4/	77,774	1.1	80,703	1.1	81,518	1.0	
Total Livestock	3,549,718	50.7	3,883,115	52.0	4,288,435	52.9	
TOTAL ALL CROPS AND LIVESTOCK	6,999,019	100.0	7,463.087	100.0	8,101,875	100.0	
LIVESTOCK	6,999,019	100.0	7,463,087	100.0	8,101,875	100.0	

<sup>1/</sup> The years 1999, 2000, and 2001 revised on July 30, 2002.

Note: Percents may not add to totals because of rounding.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site (www.ers.usda.gov/Data/Farmincome/finfidmu.htm)

<sup>2/</sup> Includes Commodity Credit loans (calculated by crop open market sales plus net CCC loans).

<sup>3/</sup> Includes flaxseed, other oil crops, Kentucky bluegrass, red clover, timothy, and other seeds; asparagus, green lima beans, snap beans, cabbage, onions, carrots, cucumbers, miscellaneous vegetables, mushrooms, other fruits, and other field crops.

<sup>4/</sup> Wool, mink, goats, ducks, geese, beeswax, turkey eggs, farm chickens, and other livestock and poultry.

<sup>\*</sup> Less than 0.1%.

<sup>2002</sup> Minnesota Agricultural Statistics

### FARM BALANCE SHEET: Minnesota, 1996-2000

Item	1996	1997	1998	1999	2000
			Million Dollars		
Total Farm Assets: 1/	40,002.2	41,678.8	43,151.0	44,665.8	46,078.5
Real Estate	27,284.3	28,836.9	30,471.3	31,489.7	32,473.8
Livestock and Poultry 2/	2,223.8	2,104.8	2,009.7	2,438.3	2,484.7
Machinery and Motor Vehicles 3/	4,873.1	4,945.6	4,954.7	4,988.3	4,958.7
Crops 4/	2,515.3	2,604.4	2,093.2	2,094.1	2,388.0
Purchased Inputs	355.2	399.1	410.2	327.9	398.7
Financial	2,750.4	2,788.0	3,212.0	3,327.5	3,374.6
Total Farm Debt: 1/5/	8,010.8	8,664.5	9,238.7	9,066.1	9,271.0
Real Estate	3,963.7	4,266.6	4,619.7	4,644.6	4,699.4
By Lender:	·				
Farm Credit System	1,199.7	1,373.8	1,635.7	1,522.7	1,526.7
Farm Service Agency	177.5	173.2	164.1	151.2	143.9
Commercial Banks	1,162.0	1,260.1	1,356.3	1,487.7	1,589.4
Life Insurance Companies	249.8	255.0	271.0	290.4	270.6
Individuals and others	1,174.7	1,204.5	1,192.6	1,192.6	1,168.8
Nonreal Estate: 1/	4,047.1	4,397.9	4,619.0	4,421.5	4,571.6
By Lender:					
Farm Credit System	933.9	1,050.2	1,178.3	1,010.4	971.3
Farm Service Agency	204.8	190.8	186.3	174.8	175.3
Commercial Banks	2,154.3	2,343.5	2,407.0	2,359.3	2,504.2
Individuals and others	754.1	813.5	847.4	877.0	920.9
Total Farm Equity 1/	31,991.4	33,014.3	33,912.4	35,599.7	36,807.5
			Percent		
Debt/Equity Ratio	25.0	26.2	27.2	25.5	25.2
Debt/Assets Ratio	20.0	20.8	21.4	20.3	20.1

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C. Internet Web Site (www.ers.usda.gov/Data/FarmBalanceSheet/fbsdmu.htm)

<sup>1/</sup> May not add to total due to rounding.2/ Excludes horses, mules, and broilers.

<sup>3/</sup> Includes only farm share value for trucks and autos.
4/ All non-CCC crops held on farms plus the value above loan rate for crops held under CCC.

<sup>5/</sup> Excludes debt for nonfarm purposes.

### 2001 Climate Summary

January's precipitation was near normal to above normal across the southern two thirds of Minnesota. Temperatures were above normal across the state in January, but this was not enough to melt the deepening snow pack. Snow depths by the end of January exceeded a foot in many areas of the state. The precipitation in February was much above normal, with some places in Minnesota receiving double or triple the normal amount of precipitation for the month. By the first week of March, the snow pack in Minnesota generally contained three to five inches of water. Some areas within the Minnesota River basin reported five to six inches of snow water equivalent. March was cooler than normal, but precipitation was below normal too, so this delayed the spring melt-off. By the end of March, the threat of flooding rivers loomed, especially on the Minnesota.

March was followed by the wettest April in history across many locations in the state. Many places in southern and central Minnesota had over six inches of precipitation for the month, with a few locales topping 8 inches. The combination of heavy precipitation and melting snow caused major flooding on many of Minnesota's rivers. May continued the trend of above-normal precipitation over the eastern and northern parts of the state. Southwestern, west central, and central Minnesota reported near average May precipitation. April plus May 2001 precipitation totals ranked near all-time record high values for portions of southeastern, east central, central, northeastern, and north central Minnesota. The temperatures in May seesawed from near record highs in the middle of the month, to record low maximum temperature records by the third week of the month.

June precipitation varied widely. After some heavy rains and severe weather in the second week of the month, the weather turned drier and precipitation was light for the rest of the month. Continuing a dry period that commenced during the second half of June, July precipitation totals were generally below average across most of Minnesota. Rainfall amounts during July generally fell short of historical averages by one to two inches. Moisture stress was observed in row crops planted in coarse textured soils. The exception to the general July dryness was far northern Minnesota where thunderstorms dropped significant rain during the month. July average temperatures finished slightly above historical averages. However, the near normal monthly means were the result of very warm mid-month and month-end temperatures offsetting cool early July weather. The dry weather of late June and July persisted into August in many areas. August precipitation totals were below average across much of the southern two thirds of Minnesota. Rainfall amounts during August generally fell short of historical averages by one to two inches in these areas. Scattered sections of northwestern and southeastern Minnesota finished the month with above normal precipitation.

September delivered welcome rainfall to many of the areas experiencing precipitation shortfalls earlier in the growing season. September totals topped historical averages by one to three inches across all but northeastern Minnesota. While the September precipitation ameliorated the dry conditions, many central and northern areas continued to report rainfall deficits for the season and remained dependent on adequate autumn rainfalls to replenish surface water systems. October precipitation was variable across Minnesota with above normal precipitation in the north, and below normal precipitation in the south. November brought record warm temperatures and plenty of precipitation, especially to southwest Minnesota. The ground had not yet frozen; so much of this precipitation was able to percolate into the soil. December was below normal in precipitation, but much above normal for temperatures. This began the balmy winter of 2001-2002.

Source: State Climatology Office, DNR – Division of Waters

MEDIAN FROST DATES: Minnesota, Based on Averages from 1948-92

		rage Date of lerature Occur			rage Date of erature Occu		Avera	oer of Days Be age Last Sprir Fall Occurren	ng and	
County										
and District	Station	24°F	28°F	32°F	32°F	28°F	24°F	32°F	28°F	24°F
Northwest										
Norman	Ada	Apr 24	May 06	May 14	Sep 24	Oct 02	Oct 13	133	153	176
Marshall	Argyle	Apr 26	May 09	May 18	Sep 22	Sep 28	Oct 10	126	143	168
Polk	Crookston	Apr 25	May 08	May 16	Sep 23	Sep 29	Oct 13	129	145	170
Becker	Detroit Lakes	May 02	May 10	May 21	Sep 17	Sep 24	Oct 05	116	139	157
Polk	Fosston	Apr 26	May 07	May 17	Sep 21	Sep 28	Oct 16	127	146	173
Kittson	Hallock	Apr 27	May 09	May 19	Sep 23	Oct 02	Oct 10	126	144	165
Clay	Moorhead	Apr 21	May 06	May 13	Sep 24	Oct 04	Oct 15	135	152	178
Red Lake	Red Lake Falls	Apr 20	May 08	May 17	Sep 22	Sep 28	Oct 10	127	141	176
Roseau	Roseau	May 04	May 14	May 25	Sep 16	Sep 25	Oct 07	112	137	159
Roseau <b>North Central</b>	Warroad	Apr 30	May 10	May 21	Sep 23	Sep 28	Oct 12	124	141	165
Lake of the Woods	Baudette	Apr 28	May 09	May 22	Sep 22	Sep 28	Oct 13	122	146	164
Beltrami	Bemidji	May 04	May 09	May 22	Sep 22	Sep 27	Oct 15	124	136	164
Koochiching	Big Falls	May 04	May 15	Jun 01	Sep 15	Sep 24	Oct 05	108	135	159
Itasca Koochichina	Grand Rapids	Apr 27	May 09	May 23	Sep 20	Sep 27	Oct 09	116	141	165
Koochiching	Int'l Falls	Apr 29	May 12	May 24	Sep 17	Sep 25	Oct 08	114	138 143	163
Hubbard Northeast	Park Rapids	May 01	May 08	May 19	Sep 20	Sep 27	Oct 07	124	143	162
St. Louis	Babbitt	Apr 28	May 09	May 21	Sep 23	Oct 05	Oct 22	125	153	174
St. Louis	Duluth (Airport)	Apr 24	May 09	May 20	Sep 23 Sep 22	Oct 05	Oct 22	123	153	174
Cook	Grand Marais	Apr 17	May 09	May 15	Sep 22 Sep 30	Oct 19	Oct 17	138	171	175
St. Louis	Hibbing	Apr 28	May 12	May 29	Sep 13	Sep 26	Oct 06	107	137	163
West Central	Alexandria	Apr 12	Apr 24	May 09	Oct 01	Oct 12	Oct 25	146	169	194
Douglas Swift	Alexandria Benson	Apr 13	Apr 29	May 08 May 07	Sep 30	Oct 12	Oct 18	146	166	189
Wilkin	Campbell	Apr 13 Apr 20	Apr 29	May 10	Sep 30	Oct 02	Oct 14	136	156	179
Yellow Medicine	Canby	Apr 14	Apr 28	May 08	Oct 01	Oct 10	Oct 14	147	163	189
Otter Tail	Fergus Falls	Apr 16	Apr 30	May 09	Sep 27	Oct 09	Oct 21	143	162	188
Lac Qui Parle	Madison	Apr 14	Apr 29	May 07	Sep 28	Oct 09	Oct 20	144	166	192
Lac Qui Parle	Montevideo	Apr 13	Apr 28	May 07	Sep 30	Oct 10	Oct 21	146	169	192
Stevens	Morris	Apr 14	Apr 29	May 08	Sep 27	Oct 06	Oct 17	143	161	185
Traverse Central	Wheaton	Apr 15	Apr 28	May 10	Sep 28	Oct 10	Oct 23	143	162	189
Sibley	Gaylord	Apr 09	Apr 17	Apr 30	Oct 05	Oct 14	Oct 24	159	180	193
Scott	Jordan	Apr 13	Apr 28	May 10	Sep 27	Oct 07	Oct 20	143	164	190
Morrison	Little Falls	Apr 19	May 02	May 12	Sep 24	Oct 03	Oct 17	136	154	181
Stearns	Melrose	Apr 12	Apr 28	May 11	Sep 24	Oct 05	Oct 16	138	160	186
Stearns	St. Cloud	Apr 19	May 01	May 12	Sep 24	Oct 05	Oct 17	138	157	180
Wadena	Wadena	Apr 22	May 16	May 12	Sep 24	Oct 03	Oct 18	137	156	180
Kandiyohi East Central	Willmar	Apr 12	May 05	May 02	Oct 03	Oct 14	Oct 24	154	172	193
Aitkin	Aitkin	Apr 23	May 06	May 19	Sep 23	Sep 28	Oct 18	126	149	176
Crow Wing	Brainerd	Apr 22	May 04	May 12	Sep 20	Oct 01	Oct 16	132	151	175
Pine	Hinckley	Apr 22	May 06	May 20	Sep 22	Sep 28	Oct 10	120	147	172
Hennepin	Maple Plain	Apr 13	Apr 25	May 06	Oct 01	Oct 13	Oct 25	153	169	195
Mille Lacs	Milaca	Apr 18	May 01	May 12	Sep 25	Oct 03	Oct 18	137	153	184
Carlton	Moose Lake	May 02	May 16	May 31	Sep 16	Sep 26	Oct 07	109	132	162
Kanabec	Mora	Apr 21	May 05	May 17	Sep 20	Oct 01	Oct 14	125	151	169
Washington	Stillwater	Apr 10	Apr 16	May 02	Oct 07	Oct 16	Nov 02	160	184	207
Southwest Bodwood	Lomberton	A== 00	A == 00	Marria	0 00	0-4.07	0-445	4.40	400	400
Redwood	Lamberton	Apr 09	Apr 28	May 06	Sep 29	Oct 07	Oct 15	146	163 160	188
Rock	Luverne Marshall	Apr 16 Apr 10	Apr 29 Apr 22	May 07	Sep 27 Oct 04	Oct 05 Oct 15	Oct 16 Oct 24	142 155	160 176	177 196
Lyon Pipestone	Pipestone	Apr 10 Apr 23	Apr 22 May 05	May 05 May 12	Sep 23	Oct 15 Oct 03	Oct 24 Oct 10	155 135	176	196
Cottonwood	Windom	Apr 23 Apr 14	Apr 15	May 07	Sep 23 Sep 30	Oct 03	Oct 10	146	167	189
South Central		1	•	•						
Freeborn	Albert Lea	Apr 09	Apr 20	May 02	Oct 05	Oct 18	Oct 31	156	181	201
Martin	Fairmont	Apr 06	Apr 14	May 01	Oct 09	Oct 20	Oct 31	161	189	208
Rice	Faribault	Apr 14	Apr 27	May 10	Sep 29	Oct 11	Oct 24	146	167	193
Brown	New Ulm	Apr 09	Apr 23	May 03	Sep 28	Oct 10	Oct 23	148	170	193
Waseca	Waseca	Apr 12	Apr 23	May 06	Oct 01	Oct 06	Oct 24	149	167	192
Faribault <b>Southeast</b>	Winnebago	Apr 09	Apr 19	May 03	Oct 06	Oct 17	Oct 26	158	180	203
Mower	Austin	Apr 12	Apr 29	May 07	Sep 27	Oct 06	Oct 23	144	166	191
Houston	Caledonia	Apr 14	Apr 24	May 06	Sep 29	Oct 11	Oct 26	152	174	192
Dakota	Farmington	Apr 11	Apr 21	May 03	Oct 03	Oct 12	Oct 29	155	178	201
Fillmore	Preston	Apr 21	May 07	May 18	Sep 21	Sep 29	Oct 13	125	148	178
Olmsted	Rochester	Apr 11	Apr 21	May 08	Sep 30	Oct 13	Oct 27	147	174	197
Winona	Winona	Apr 07	Apr 17	Apr 17	Oct 06	Oct 19	Oct 31	163	184	205

Source: State Climatology Office, DNR - Division of Waters

MONTHLY PRECIPITATION: by Selected Stations and Districts, Minnesota, 2001

MONTH	LYPK	ECIPII	AHON	: by 56	elected	Statio	ns and	DISTRI	cts, IVII	nneso	ta, 200°	1
Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
				-		Precipitatio	n (Inches)			•		
<u>Northwest</u>								-				
Argyle	.12	.54	.06	1.32	3.90	2.00	3.70	1.97	1.10	2.38	.13	.59
Crookston	.15	.34	.10	1.69	2.51	1.53	4.34	4.81	2.55	1.69	.22	.44
Moorhead	.20	.74	.26	2.86	2.99	2.46	3.46	2.21	1.61	M	M	.22
District	.15	.66	.13	2.36	3.21	2.60	4.00	3.47	2.55	2.48	.64	.43
Normal	.71	.48	.96	1.63	2.52	3.71	3.17	2.96	2.55	1.72	.82	.69
North Central	0.5	4.00	40	4.57	<b>5</b> .00	0.00	4.04	0.00	4.05	0.70	0.00	4.00
Grand Rapids	.85 .18	1.82 .25	.40 .13	4.57 3.54	5.32 4.50	3.92 3.07	1.94 8.29	2.83 1.65	1.95 2.11	3.78 2.59	2.09 .90	1.06 .27
Int'l Falls Walker	M.27	.25 M2.23	.13	3.54 4.57	4.50 4.05	3.66	2.70	3.90	2.11	2.59 3.12	.90 2.47	.35
District	.51	1.18	.13	4.26	4.65	3.41	4.06	3.99	1.99	3.12	1.46	.70
Normal	.78	.52	1.15	1.92	2.83	4.00	3.74	3.51	3.02	2.28	1.12	.83
Northeast	.,,	.02	1.10	1.02	2.00	4.00	0.74	0.01	0.02	2.20	1.12	.00
Duluth	1.25	1.76	.69	8.18	3.49	3.06	1.89	3.31	1.41	2.42	2.21	.55
<b>Grand Marais</b>	.53	M1.43	.16	6.85	4.29	2.74	4.06	5.18	1.34	2.81	1.87	.60
Hibbing	.45	.67	.39	4.36	4.62	2.74	2.31	3.13	1.50	2.45	1.39	.38
District	1.02	1.78	.42	6.01	4.62	2.77	3.51	5.64	1.45	3.32	2.24	.85
Normal	.98	.66	1.36	2.03	2.93	4.03	3.70	3.81	3.58	2.54	1.56	1.05
West Central												
Canby	1.65	2.09	.87	8.30	3.24	3.62	2.92	1.09	2.86	1.03	4.07	.16
Fergus Falls	M.48	M.29	M.12	3.39	2.49	6.27	2.96	1.41	3.48	M2.19	1.30	.26
Montevideo	M1.63	M.96	M.07	6.52	2.48	4.52	2.34	M1.18	3.10	.72	M1.67	M.00
Morris District	1.17 1.27	1.65 1.50	.66 .55	5.55 5.69	3.26 2.70	5.63 4.07	4.18 3.55	2.14 1.76	4.38 2.97	1.26 1.58	1.37 2.07	.16 .17
Normal	.73	.67	1.39	2.22	2.70	3.81	3.31	3.01	2.46	1.99	1.05	.65
Central	./5	.07	1.00	2.22	2.04	3.01	3.51	3.01	2.40	1.55	1.00	.00
Hutchinson	.65	M.99	.50	6.55	2.82	3.97	1.20	M1.02	3.47	1.60	2.27	.26
Olivia	1.29	1.24	1.06	6.24	М	2.54	1.29	1.09	3.84	.53	3.48	.14
St. Cloud	.66	.94	.72	8.42	4.13	3.00	2.10	1.69	1.78	1.28	2.81	.16
Willmar	1.02	1.52	.75	6.87	2.02	3.62	2.03	1.62	2.80	.90	4.93	.39
District	.96	1.65	.86	7.06	3.10	4.33	2.03	2.08	2.75	1.10	3.02	.36
Normal	.79	.70	1.63	2.46	3.22	4.35	3.66	3.66	3.01	2.27	1.36	.86
East Central	4 04	4 74	77	0.07	4.00	4.57	0.05	4.00		0.04	0.40	70
Aitkin Cambridge	1.21 M1.39	1.71 M.81	.77 M.98	6.27 9.04	4.68 2.86	4.57 6.18	2.25 4.75	1.89 5.07	M 3.70	2.04 2.36	2.40 2.91	.72 .15
MSP-Airport	1.21	1.33	1.09	7.00	4.53	6.35	2.12	2.31	3.70	1.28	2.91	.13
District	1.18	1.92	.89	7.32	4.50	5.08	2.12	3.27	2.60	1.62	2.76	.63
Normal	.88	.69	1.62	2.33	3.31	4.31	3.88	3.83	3.35	2.46	1.52	1.04
Southwest		.00	1.02	2.00	0.01	1.01	0.00	0.00	0.00	2.10	1.02	1.01
Lamberton	M1.21	M1.15	.81	8.81	2.30	2.24	6.57	1.53	3.73	.77	4.35	.27
Marshall	M.19	M.14	М	8.24	2.42	3.94	5.80	1.92	3.80	.70	M3.27	M.35
Pipestone	1.11	M1.55	M.08	6.89	3.57	5.19	2.59	.80	3.14	.90	4.24	M.06
Redwood Falls	1.13	.83	1.30	7.55	2.18	2.32	2.26	.87	2.90	.61	3.12	.60
Windom	M	M1.07	M.47	M7.46	3.86	4.26	4.21	1.18	1.51	.44	4.00	.41
District	1.04	.92	.94	7.88	3.18	3.67	3.84	1.06	2.56	.55	4.04	.30
Normal	.58	.68	1.70	2.56	3.18	3.78	3.73	2.95	3.08	2.04	1.28	.76
South Central Fairmont	1.28	M1.05	1.01	5.79	4.86	4.84	1.89	1.16	2.01	1.31	M3.39	M.13
Faribault	1.47	1.64	1.01	6.04	4.00	5.74	2.30	5.24	1.93	1.04	2.67	1.05
Mankato	M1.65	1.97	1.46	5.94	4.32	3.47	3.14	1.44	M2.30	1.63	3.31	.58
Waseca	M1.27	2.45	1.17	4.65	6.02	М	2.70	5.23	3.10	1.11	2.52	.72
District	1.56	1.73	1.09	5.89	5.19	4.80	3.39	2.58	2.71	1.15	3.08	.58
Normal	.77	.78	1.89	2.80	3.48	4.01	4.08	3.79	3.24	2.26	1.50	1.04
Southeast												
Austin	M1.25	M2.12	M1.89	M4.60	6.97	4.02	2.87	1.75	2.21	1.26	1.69	1.40
Caledonia	M1.20	1.06	1.07	5.66	4.92	3.95	3.03	3.74	5.69	2.26	1.80	1.29
Rochester	.91	1.06	1.39	7.30	7.18	5.05	2.46	4.77	3.82	1.71	2.06	1.39
Winona	M1.27	1.09	M1.73	5.05	6.03	3.56	3.11	6.62	4.15 2.57	1.78	1.85	M.91
District Normal	1.11 .96	1.14 .86	.98 1.96	5.44 2.91	5.42 3.72	4.30 4.03	2.25 4.19	3.92 3.98	3.57 3.77	1.69 2.49	1.93 1.75	1.05 1.23
INOIIIIAI	.90	.00	1.90	۱ ت. ک	3.12	4.03	4.18	3.30	3.11	۷.45	1.75	1.23

M = Missing, insufficient, or partial data

Source: National Oceanic and Atmospheric Administration, U.S. Department of Commerce